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ENERGY WORKING GROUP
DRAFT RECOMMENDATIONS

5/7/2012

ID#	ENG WG Rank	Recommendation	Overlap with Other Working Groups	Responsible Agencies or Partners	Potential Indicators	Types of Actions Needed (policy change, legislation, funding, community, etc.)
1	1	District will use 20% renewables by 2020, 35% renewables by 2025, and 80% renewables by 2050, and optimize the distance from energy creation to use to minimize wasted energy (line losses)--the 80% by 2050 number matches Rocky Mountain Institutes "Reinventing Fire" goals		SEU, DDOE	% of renewables gener., Technology type, by use and by production	Policy, Legislation, Add'l funding for DDOE/SEU for support staff & marketing
2	2	Phase in Clean Alternatives Technologies Standard (CATS) from 2015-2025 to reduce carbon emissions from DC electricity supply, reducing C02 intensity by 60%. Enact CATS legislation by the end of 2013. Become carbon free by 2033.	Climate	DDOE, City Council, Amer. Nursing Assoc,, Amer, Cancer Assoc., Sierra Club, other enviro and health NGOs	60% from benchmark, Benchmark should set a percent of yearly objectives	Legislation, Advocacy
3	3	Identify existing community hubs in each ward to serve as Sustainable DC information and resource centers by the end of 2013, and identify partners to support and supplement programming		HUB DC, Affinity Lab, Peoples Council, DPR	One hub per Ward, open 10-12 hours per day	Funding, Marketing, Staff for implementation, Communications
4	4	Become an incubator for green/clean tech companies	Green Economy	DOES, VC Cos., DSLBD, DMPED, Univ. & High/Trade Schools, SEU, DDOE	Established Structure, # of companies in DC, Comp, adding growth, # of jobs created	Funding, Legislation for tax incentives, Public/Private Partnership
5	5	Align regulations and tax policy to promote renewable development		City Council, DDOE	% of renewables gener., Technology type, by use and by production	Policy, Legislation, Add'l funding for DDOE/SEU for support staff & marketing
6	6	Reduce total energy consumption in the District 5% by 2015 and progressively thereafter with the eventual goal of 60% reductions by 2035 (measured in kWh and therms, not including transportation energy). Refer to ACEEE study and base year.	Built Environment, Climate, Green Econ	SEU, DDOE, DC Water, Property Holders	Measurable Reductions # of Participants	Funding for community engagement
7	7	Speed up time frame for adoption through public involvement and possible legislation. Get current DC dynamic pricing docket moving into active public participation by June 2012		PSC, Pepco, DDOE, City Council	Pilot Implemented	Approval
8	8	By 2014, create additional consistent funding mechanisms for energy efficiency and renewable energy		DDOE, CFO, City Council, DOE, Financial Markets	# of projects & types $ of projects	SEU contract parameters Financial Market Support
9	9	Incentivize investment in "campus" microgrids, distributed generation, and r&d, and create dedicated funding source for pilot programs. Take into consideration recommendations of the study on the potential for co-generation and district energy in the DC area that was conducted by Washington Region Council of Governments in 2011.		DDOE, DMPED, OP, Utilities, Universities, Hospitals, DOE	Completed Draft Plan Incentives Created	Zoning changes, Explore PUD options, legislation changes, interconnection changes
10	10	By 2015, pass legislation (sometimes called "Energy Conservation Ordinances") that requires energy audits and disclosure for all buildings at point of sale.	Built Environment	City Council, DDOE, DCRA, DCBIA	Legislation Enacted	Legislation Drafted
11	11	Use public space for renewable power generation where appropriate	B.E., Transpo G.E., Nature	DDOT, DCPS, DPR, DC Water, DGS	Define public space Annual potential Tally of installs Survey of military sites	Funding, Legislation, Policy for Reporting
12	12	Ensure that there is utility incentive for efficiency and decouple rates for Washington Gas				
13	13	By 2015, do a baseline feasibility study of individual and multiple buildings, public and private (zone heating) system of ground source heat pump potential.	B.E.	DDOT, SEU/DDOE, DOE, BIDs, AOBA, DOT/DOE (funding) DGS, GSA Large Property Owners	Funding Identified RFP, Reporting and Recommendation	Funding
14	14	By 2015, expand the capacity of the DC Sustainable Energy Utility to provide financing by creating a legal framework that gives the SEU access to bonding authority and makes possible public-private financing such as power purchase agreements with low-cost capital and agreements with energy service companies for energy efficiency investments with performance guarantees.				
15	15	By 2015, explore, study and support the feasibility of a regional carbon tax initiative.	Climate, B.E. G.E., Waste	Same as #13	Same as #13	Same as #13
16	16	By 2017, 100% of all K-12 students (both DCPS and charters) receive energy education, as part of science/math courses K-8, and then as a stand alone offering in grades 9-12. All schools should select an energy/sustainability department head and create green committees of students and faculty by 2017 as well.	Climate	OSSE, DCPS, PBS Teachers, Koshland Science Museum, MOCO Enviro Literacy Curriculum, Discovery Education, DOE's K-12 lessons	EE improvements in schools, # of DC Sciece Fair projects in Energy, Green and sust. Comm. Participation in schools	Dedicated funding for teacher training and new salaried position
17	17	By 2015--10%--and by 2030--100%--of low-income housing will receive the most appropriate energy upgrades through available financing options. District should immediately begin to retrofit low-income housing where city pays the utility bills, and research financing options where tenants covers bills.		DHCD, DC Green Communities Init., DC HFA, CNHED, Jubilee Housing, Mi Casa, HAND, SEU, City First Homes	% of income that goes towards energy costs, % reduction in subsidy demand for low income (meas./capita and adj. For weather)	Public awareness camp., Alignment with Green Building Act, Ensure subsidies for low-income cons. Promote energy investments
18	18	Prioritize implementing/feasibility of cogeneration opportunities and technologies		SEU, DDOE, GSA, Univ., PSC, EPA CHP Partnership, Utilities, Pareto, Honeywell, Ameresco, Burns and McDonnel, MWCOG	% of power/heat prov. By CHP % of campuses using cogeneration (incl. WRAMC, St. E's, Capitol, Etc.)	Factor thermal offsets into air emissions and CATS (CESA of 2012), Bridge agreements (Energy Improvement Districts), Require Decrease of fossil fuel inputs over time, Util. cooperation, require facil. Assessments in new cons. Over a certain size, credit enhancement (gov. insur.)

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19	19	Convert all DC pools to solar thermal		DOH, DPR, Hotels, Gyms, Schools/Univ., Skyline Innovations, Standard Solar, Clean Currents	% of converted pools	Inclusion in green building requirements
20	20	Expand PACE beyond large commercial, deploy $2 billion of private capital financing for energy efficiency and renewable energy retrofits				
21	21	By 2014, ensure that a waste-to-energy study to analyze best technology and viability in the District is completed	Waste	DDOE, PSC, DPW	Study is completed on time	Hire consultant Allocate funding
22	22	By 2013, build an overlay/GIS map to identify high and low energy use in the city	B.E.	DDOE, Pepco, Wash Gas, OCTO	Zip Code Level - 2013 Block Level - 2014 Commercial Area - 2015	Legislation
23	23	By 2013, create accurate baseline data for residential and commercial properties		DDOE		Energy Study
24	24	Mandate analysis of renewables on new construction and implement economically feasible measures	B.E.			Define "economically feasible, Legislation
25	25	By 2017, 100% participation in Smart Meter Usage in 5 years (not just deployment but consumer awareness and participation		PSC, Mayor, Pepco	% of people participating	See #3 and #7
26	26	Need to assessment/audit all levels and make link to the implementation and ensure that there is financing in place to execute implementation				
27	27	Deploy EV charging stations in all neighborhoods				
28	28	In 5 years, educational leadership capability will be created in all wards				
29	29	The District will establish geographic goals of __% of energy retrofits in each ward, with additional goals for size & type of building, and broaden financing in 2 years to cover each sector				
30	30	Increase by __ % the number of green jobs				
31	31	District should be #1 in the country for energy R&D				
32	32	Make grid improvements needed for rapid renewable deployment and create grid level energy storage				